

SOME COMMON FLOWERING PLANTS OF NANDI HILLS

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AND

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"NANDI is a famous hill-station 31 miles north of Bangalore and terminates a range of mountains of which it is the highest point. The summit is 4,851 ft. above the sea-level. There is an extensive plateau at the top sloping to the west. The mean average rainfall is 30"-90, spread over 45 days." The flora of the hill top is not similar to that of the surrounding hills, owing to the fact that many exotics and garden plants have been introduced. In the present paper the authors wish to place on record some of the common flowering plants, collected by them during different seasons, with the view to acquaint the student of Botany with the floristic composition of the place. Short descriptions of the indigenous and some of the cultivated plants have been given, and only mention is made of most of the horticultural plants.

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1. FAGACEÆ.

Quercus sp.? Planted near Oaklands.

2. URTICACEÆ.

Pouzolzia Bennettiana W., an erect herb with lanceolate leaves, 3-5 ribbed. Flowers yellowish white in axillary clusters and mostly monœcious.

Pilea muscosa Lindl., a common weed growing in pots, with small, entire, rotund or spatulate leaves. Flowers pinkish, mature anthers dehisce in an explosive manner.

3. MORACEÆ.

Ficus Tsiela Roxb., a large tree, no aerial roots, leaves glabrous, ovate-lanceolate, 6-10 pairs of nerves. Fruits smooth purple and sessile receptacles.

Ficus glomerata Roxb., large tree, few aerial roots, syconiums on short leafless branchlets, leaves entire, elliptic, lanceolate, reddish fruits edible.

Ficus religiosa Linn.

Artocarpus integrifolia Linn.

4. ULMACEÆ.

Trema orientalis Bl., small tree. Leaves alternate, with serrate margin. Greenish inconspicuous flowers, style bifid, and small seeds.

5. PROTEACEÆ.

Grevillea robusta Cunn., cultivated.

6. SANTALACEÆ.

Santalum album Linn.

Osyris arborea Wall., parasitic shrubs with alternate leaves. Flowers polygamous, greenish-yellow. P 3 or 4, A 3-4, G inferior. Orange red drupes. Very common along the hill slopes.

7. OLACACEÆ.

Oxal Wightiana Wall., shrubby tree, with climbing habit. Flowers axillary, white, with 3 connate petals, stamens 8, 3 fertile and 5 staminodes. Calyx cupular, enclosing the fruit which is one seeded.

8. LORANTHACEÆ.

Viscum articulatum Burm., leafless stem parasite, internodes flattened, each at right angles to the next. Flowers axillary. Globose berry containing hard mucilage.

9. POLYGONACEÆ.

Polygonum chinense Linn., scandent undershrub, ochraceous stipules. Flowers corymbose, whitish. Leaves ovate-elliptic, upto 6" in length.

10. AMARANTACEÆ.

Celosia argentea Linn., herb with alternate leaves. Floral parts pentamerous, one-celled ovary. Flowers in stout spikes, pinkish in early stage and later on white. Seeds with shiny black testa.

Gomphrena globosa Linn.

Achyranthes aspera Linn., herb with entire opposite leaves. Spikes long and slender, bracts numerous and spinescent. A 2-5, connate at the base, alternating with the staminodes.

Allmania nodiflora R. Br., herb. Flowers scarious and hermaphrodite. P 5, A 5, filaments connate below. Fruit a small utricle.

Banalia thyrsoflora Moq., an erect herb with white thyrsoid panicles. Flowers hermaphrodite. Fruit one-seeded utricle.

11. PORTULACACEÆ.

Portulaca oleracea Linn., prostrate succulent herb. Flowers clustered, yellow, ovary half inferior, many seeded, and style 3-8 fid.

Portulaca quadrifida Linn., flowers solitary.

12. NYCTAGINACEÆ.

Boerhaavia diffusa Linn., a diffuse herb with procumbent branches. Perianth tube campanulate, pinkish in colour, A 1-5 connate below. Leaves ovate-oblong.

13. AIZOACEÆ.

Trianthema decandra Linn., succulent herbs with elliptic leaves. Axillary cymes, pinkish. Stamens 10. Fruit a capsule with a rib, enclosing 2 seeds.

Mollugo stricta Linn., common weed, with linear-lanceolate leaves. C 5, A 5, seeds dark brown in colour.

14. CARYOPHYLLACEÆ.

Polycarpaea corymbosa Lamk., herbs with flowers in lax cymes. Sepals scarious, C 5, A 5, style 3 fid and numerous ovules.

Gypsophila sp.? Linn., an introduced plant running wild. Flowers conspicuous and white.

15. RANUNCULACEÆ.

Clematis Wightiana Wall., climbing shrub. Leaves pubescent and veinlets prominent. Infl., axillary. Flowers yellowish-white. Numerous carpels. Style long and pubescent.

Delphinium Ajacis Linn., cultivated, called Lark-spur.

16. MENISPERMACEÆ.

Cocculus villosus D.C., climbing shrub. Infl., axillary, flowers greenish-yellow. Perianth 6, 1 with 3 hard horse-shoe shaped seeds.

17. ANONACEÆ.

Anona squamosa Linn.

18. LAURACEÆ.

Cinnamomum camphora, Nees., cultivated.

Cinnamomum iners Reinw., large tree, elliptic leaves, 3 ribbed with transverse nervules horizontal and parallel. 6 P lobes, A 9, valvular dehiscence. Fruit berry.

Phæbe paniculata Nees., tree with black branchlets. Fruiting P lobes erect and cuplike.

19. CAPPARIDACEÆ.

Capparis zeylanica Linn., stout climbing shrub, young parts tomentose. Flowers whitish, petals 4, indefinite stamens, ovules many. Parietal placentation.

Cleome viscosa Linn., herbs. Plants covered with viscid glands. Leaves usually 3-5 foliate, K 4, C 4, A 6-20. Capsule many seeded.

Cadaba indica Lamk., scandent shrubs. K 4, C 4, disc large, coloured, surrounding the gynophore, and trumpet-shaped. Fruit orange-coloured berry.

20. CRUCIFERÆ.

Lepidium sativum Linn., diffuse herbs with white flowers. Divided radical leaves. Pods deeply notched with narrow wings.

Nasturtium indicum D.C., pubescent herbs with small greenish yellow flowers. C 4, A 4-6. Siliqua cylindric and long.

21. DROSERACEÆ.

Drosera Burmanni Wall., found in marshy places.

22. CRASSULACEÆ.

Kalanchoe floribunda W. & A., succulent herb planted in rockeries.

23. ROSACEÆ.

Rosa various species.

Rubus lasiocarpus Smith., (Indian raspberry) climbing shrubs armed with prickles. Stem whitish. Flowers rose coloured. K 5, C 5, A many, Carpels indefinite. Fruit drupel.

Eriobotrya japonica Lindl. (Loquat.).

Pyrus communis Linn. (Pears).

24. LEGUMINOSÆ.

Glycine javanica Linn., twiner. Leaves trifoliate. Flowers whitish. A 10, monadelphous, all fertile. Pods not hooked, linear, densely tomentose.

Alysicarpus rugosus D.C., herbs. Simple leaves. Flowers yellowish, stamens diadelphous and anthers uniform. Pods moniliform and joints transversely ribbed.

Zornia diphylla Pers., small herb with yellow flowers and simple leaves. Stamens monadelphous, anthers diomorphic.

Rothia trifoliata Pers., herb with trifoliate leaves. Papilionate corolla, monadelphous stamens. Style with capitate stigma. Pod many seeded dehiscing by dorsal suture.

Indigofera endecaphylla Jacq., a trailing herb with purple flowers. Leaflets 7-13. Stamens diadelphous, anthers uniform. Pod many seeded.

Pongamia glabra Vent.

Crotalaria calycina Schrank.

Crotalaria juncea Linn.

Cassia Fistula Linn., small tree with long racemes of bright yellow flowers. Leaflets 4-8 pairs, ovate, acute. A 10. Pods 1' to 2' long.

Cassia auriculata Linn., shrubs with auriculate stipules and bright yellow flowers. Leaves with subulate glands between the leaflets. Flowers in corymbs.

Acacia leucophlœa Willd., large tree with white flowered heads in terminal panicles. Leaves bipinnate, leaflets linear. K 5, C 5, A indefinite. Pods flat and strap-shaped.

Acacia concinna D.C., climbing shrubs armed with prickles. 8 Pairs of pinnæ with about 20 pairs of pinnules. Calyx red coloured, and corolla white. Pods fleshy.

Acacia ferruginea D.C., large tree. 10 to 20 pairs of leaflets. K white. Pods with 6-7 seeds.

Mimosa pudica Linn.

Pithecolobium dulce Benth., tree with spinescent stipules. Flowers in close heads of terminal panicles. Pods twisted and seeds with a white aril.

Pithecolobium saman Prain., Planted in avenues.

Albizzia odoratissima Benth., large deciduous tree with white flowers. Leaves bipinnate. Flowers in globose heads, anthers yellow. Pods brown and glabrous.

Bauhinia tomentosa Linn., trees with yellow flowers. Standard with red blotch. Pods 4" to 5" long without any ridge along the upper suture.

Bauhinia purpurea Linn., small tree. Leaves with two leaflets. Palmately ribbed. Flowers purple. A 10, with 5-8 staminodes.

25. GERANIACEÆ.

Oxalis corniculata Linn., small herb with trifoliate sour acidic leaves having long stalks. Flowers yellow. C 5, A 10, 5 distinct styles. G (5). Explosive dehiscence of fruits.

Averrhoa Carambola Linn., fruit tree.

Geranium sp. ? cultivated.

26. LINACEÆ (ERYTHROXYLACEÆ).

Erythroxylon monogynum Roxb., small tree with reddish-brown heart wood. Alternate leaves. Flowers small, whitish. K 5, C 5, A 10-12, monadelphous, G 3-4 celled. One seeded drupes.

Linum mysorensense Heyne., slender erect herbs with yellow flowers, and alternate leaves. K 5, C 5, A 5, fused at the base, G 5-celled, with compressed seeds.

27. RUTACEÆ.

Toddalia aculeata var. *floribunda* Lamk., erect spinescent shrub with glandular trifoliate leaves. Flowers monœcious, pentamerous. Fruit globose orange red.

Murraya exotica Linn., small shrubby trees, unarmed. Leaves with 3-7 leaflets and glandular. A 10, anthers small. Disc inside the stamens. Fruit red berry, 1-2 celled.

Aegle Marmelos Corr.

Citrus Aurantium Linn., and *Citrus decumana* Linn., cult.

28. ZYGOPHYLLACEÆ.

Tribulus terrestris Linn., prostrate herb with solitary yellow flowers. K 5, C 5, A 10. Fruit spinescent schizocarp with cocci.

29. MELIACEÆ.

Cipadessa fruticosa Blume. (*C. baccifera* Miq.), shrub with imparipinnate leaves and small whitish flowers. K 5, C 5, A 10 connate below. Fruit fleshy drupe, 1-2 seeded.

Melia Azadarach Linn., Neem tree.

30. MALPIGHIACEÆ.

Malpighia glauca.

31. POLYGALACEÆ.

Polygala chinensis Linn., herbs with yellow flowers, petals united. A 8 fused to form a tuft. Seeds with caruncle.

32. EUPHORBACEÆ.

Flueggea microcarpa Blume., armed shrubs with the axillary branches modified to spines. K 5, C 0, unisexual, A 5, G 1-3 celled. Fruit with 6 cocci.

Breynia rhamnoides Muell., shrubby trees with alternate leaves. Flowers monœcious, minute, developed in axils. K six lobed, C 0, A 3, G 3 celled. Fruit succulent and indehiscent.

Mallotus phillipinensis Muell., spreading tree. Flowers axillary, with 3 valvular capsules, which yield a bright orange dye. Planted on hill tops.

Phyllanthus Niruri Linn., small herbs with branchlets resembling pinnate leaves. Flowers greenish yellow, monœcious. K 5-6, A 3, transverse dehiscence, styles recurved. G three celled.

Phyllanthus distichus Muell., small tree, leaflets 2-3 stichous. Flowers minute. Fruit globose, fleshy and acidic.

Ricinus communis Linn.

Codiaeum various species. Common crotons.

Euphorbia caducifolia Heynes., small shrub with thick branches, stipular spines, and red capsules.

Euphorbia hirta Linn., common herb.

Euphorbia thymifolia Linn., prostrate herb with hispid stems. Oblong leaves, cocci rounded.

33. ANACARDIACEÆ.

Mangifera indica Linn., mango.

Anacardium occidentale Linn., cashew-nut.

Semecarpus Anacardium Linn., small tree with coriaceous leaves. Flowers panicles and polygamous. K 5, C 5, intrastaminal disc. Ovary 1 celled, three styles, fruit a drupe seated on fleshy receptacle.

34. CELASTRACEÆ.

Celastrus paniculata Willd., climbing shrubs with ovate leaves. Flowers white in pendent panicles, polygamous. K 5, C 5, A 5, G 3 lobed, conical, with short style in male.

35. SALVADORACEÆ.

Azima tetracantha Lamk., straggling shrub with axillary spines and opposite leaves. Flowers unisexual and diœcious. K 4, C 4, A 4, G 2 celled one seeded. Berry whitish.

36. SAPINDACEÆ.

Nephelium Longana Camb., large tree with small polygamous flowers. Leaves paripinnate with 4-10 pairs of leaflets.

Nephelium Litchi Camb., fruit tree.

Sapindus laurifolius Vahl., tree, 2-3 pairs of leaflets flowers polygamous. K 5, C 5, A 8, extra marginal disc. Fruit of 1-3 indehiscent drupes.

Dodonea viscosa Linn., shrubs with small polygamous flowers. K 5, C 0, G 3 angled. Style three sided. Fruit membranous.

Cardiospermum Helicacabum Linn., small climber with basal florets modified to tendrils. Fruit membranous and inflated capsule.

37. BALSAMINÆ.

Impatiens various species.

38. RHAMNACEÆ.

Zizyphus Ænoplea Mill., climber with stipular thorns, leaf ovate-acute. K 5, C 5, 5 antepetalous stamens, and a prominent disc which is pitted. Fruit a drupe.

Zizyphus rugosa Lamk., thorny tree with cordate leaves. Flowers in panicles, petals 0, styles 2.

39. VITACEÆ.

Leea aspera Edgew., shrubby trees, leaflets ovate, flowers small whitish in terminal corymbose cymes. K 5, C 5, A 5. Fruit 3-6 celled.

40. TILIACEÆ.

Grewia tiliæfolia Vahl., small tree with large 5 ribbed leaves, peduncles shorter than petioles, pyrenes two lobed. Flowers orange yellow.

Triumfetta rhomboidea Jacq., undershrub, palmately lobed pubescent leaves. K 5, C 5 yellow, A 8-15, G 5 celled, bristles of fruit glabrous.

Corchorus trilocularis Linn., small weed with yellow flowers, leaves with crenate margin. K 5, C 5, A 8-10. Fruit capsule, 3-4 valved.

41. MALVACEÆ.

Sida humilis Willd. (*S. veronicaefolia* Lamk.), trailing herb, cordate leaves, dentate margin, pubescent, flowers yellow, 5 carpels.

Malvastrum coromandelianum Garcke., erect undershrubs, flowers yellow with capitate stigmatic surface, G 5 celled. Cocci.

Abutilon indicum G. Don., small shrub with tomentose cordate leaves, flowers yellow opening in the evening, carpels about 16, styles 16, seeds minutely furrowed.

Urena lobata Linn., tomentose undershrub, leaves deeply lobed with a gland at the base of the midrib, flowers pinkish, G 5 carpelled, covered by golchidiate spines.

Hibiscus cannabinus Linn., tall undershrubs, flowers yellow with red petal spot, leaves palmatifid with a gland on the midrib, calyx covered with tomentose hairs.

Hibiscus micranthus Linn., slender branching shrub, flowers white, K lobes twice as long as the tube, capsule 5 valved.

42. STERCULIACEÆ.

Buettneria herbacea Roxb., prostrate herbs, leaves glabrous, dentate margin, maroon-coloured flowers. K 5, C 5, A 10 connate below, 5 staminodes, fruit covered with bristles, 5 valves.

Waltheria indica Linn., undershrubs, flowers in dense globose clusters, K 5, C 5, yellow, A 5, fruit two-valved one-seeded capsule.

43. THEACEÆ.

Camellia sp. ? flowering plant, cultivated.

44. ELATINACEÆ.

Bergia ammanioides Roxb., herbs growing in marshy places, leaves opposite, dentate margin, flowers axillary in dense clusters, red, 3-5 stamens, capsule three celled.

45. VIOLACEÆ.

Ionidium suffruticosum Ging., small herb with red flowers, K 5, C 5, one of the corolla spurred at base, A 5, anthers spurred, capsule three valved with a cylindric style.

46. FLACOURTIACEÆ.

Flacourtia Ramontchi L. Herit., shrub with diœcious flrs., K 5, C 0, A indefinite, indehiscent purple fruits.

47. PASSIFLORACEÆ.

Passiflora Leschnaultii D.C., twining shrubs with axillary tendrils, palmately lobed leaves, K 5, C 5, with corolline coronna, A 5, gynandrophore present, three styles, fruit indehiscent berry.

48. BEGONIACEÆ.

Begonia sp. ? foliage plants.

49. COMBRETACEÆ.

Terminalia bellerica Roxb., large tree, elliptic leaves, K 5, C 0, A 10, inferior ovary, one celled, fruit faintly five ridged, subglobose, with brown tomentose hairs.

Terminalia Chebula Retz., tree, fruits shining, obovoid, faintly angled, *Quisqualis indica* Linn.

50. LYTHRACEÆ.

Ammannia baccifera Linn., herbs in marshy regions, leaves cordate base, flowers minute pink, K 4, C 5, crumpled, A 4, fruits many seeded, one locule, capitate stigma.

Rotala sp. ? marshy regions, 3 loculed fruits.

51. MYRTACEÆ.

Psidium guayava Linn.

Eugenia Jambolana Lam.

Eugenia Jambos Linn.

Eucalyptus Globulus Labill.

52. ONAGRACEÆ.

Jussieua repens Linn., marshy plant, with white pneumatophores, flowers yellow, K 4-5, C 4-5, A = 2 C, G inferior, four celled, many seeded.

Oenothera sp. ? two distinct varieties were noticed.

53. ARALIACEÆ.

Heptapleurum venulosum Seem., small tree, leaves digitately compound, flowers in umbellose panicles, yellowish white, K 5, C 5, A 5, G 5-6, inferior, fruit dry drupe. The plant was found epiphytic, with long aerial roots in one instance.

54. UMBELLIFERÆ.

Heracleum Hookerianum W. & A., tall herb, pubescent stem, lower leaves undivided, flowers umbels, yellowish white.

Centella asiatica Urban., prostrate herbs, with reniform leaves, crenate margin, fruits laterally compressed, mericarps with 7-9 ridges.

55. PRIMULACEÆ.

Anagallis arvensis Linn., small herb, opposite leaves, flowers solitary, purplish blue, K 5, C (5), A 5, fruit globose, circumscissile capsule, many seeded.

56. SAPOTACEÆ.

Bassia latifolia Roxb., trees with latex, flowers in clusters, K 5, C campanulate, about 12 lobes, A 12, anthers long hairy, fruits ovoid, fleshy.

Mimusops hexandra Roxb., K 6 lobed, A usually 6, staminodes which are fimbriate present.

57. OLEACEÆ.

Ligustrum robustum Blume., near Oaklands.

Jasminum sp. ? species not identified.

58. LOGANIACEÆ.

Buddleia asiatica Lour., large shrubs with opposite leaves, flowers in terminal panicles, white, parts tetramerous, ovary 2 celled, fruit many seeded.

59. GENTIANACEÆ.

Exacum bicolor Roxb., small herb growing in marshy regions, leaves opposite, 5 ribbed, K 4, C 4-5, purplish blue, G 2 celled, many seeded.

Erythrea Roxburghii G. Don., slender herb, with opposite leaves, flowers in dichotomous cymes, white, parts 4-5 merous, fruit 2 celled, style linear, bifid stigma.

60. APOCYNACEÆ.

Carissa Carandas Linn., climbing spinescent shrubs, terminal cymes, parts 5 merous, 2 celled ovary, fruit ellipsoid berry.

Ichnocarpus frutescens R. Br., climbing shrubs, with yellowish white latex, leaves opposite, tips of corolla lobes deflected, anthers included, follicles slender.

Lochnera Pusilla K. Schum., small herb with opposite leaves, flowers white, fruit cylindric, slender follicles, seeds truncate at both ends.

Tabernaemontana Heyneana Wall., small deciduous shrubby tree, white flowers, orange yellow follicles.

61. ASCLEPIADACEÆ.

Tylophora asthmatica W. & A., climber with opposite leaves, flowers greenish yellow, corolla with 5 distinct processes, gynostegium arising from the base of corolla, follicles 3"-4", seeds comose.

Calotropis gigantea Br., shrubs with opposite leaves, covered with white velvety hairs, C valvate in bud, corolla processes laterally compressed, flowers purplish white.

62. CONVULVULACEÆ.

Evolvulus alsinoides Linn., trailing herb with pinkish white flowers, stamens 5, not exserted, styles two, free, branched, capsule 4 valved.

Convolvulus arvensis Linn., trailing herb, linear leaves, hastate at the base, flowers yellowish white, fruit 4 valved.

Lettsonia elliptica Wt., woody climber with pale blue flowers, leaves elliptic, small sepals not enclosing the fruit, G 2 celled.

Argyreia cymosa Sweet., erect climber, ovate cordate leaves, pentamerous parts, K not enclosing the fruit, G 4 celled.

Merremia sp.? trailing herb, alternate leaves, yellow flowers in axillary cymes, A 5, G four celled, stigma biglobose.

63. BORAGINACEÆ.

Ehretia Laevis Roxb.

Cordia Myxa C. B. Clarke, small tree, flowers in corymbose cymes, polygamous, K ribbed, style twice bipartite, fruit four lobed.

Heliotropium indicum Linn., herbs, alternate leaves, flowers minute in long spikes, pale violet, floral parts pentamerous, fruit 4 nutlets combined in pairs.

Cynoglossum furcatum Wall., erect herbs, alternate sessile leaves, K 5, C 5, A 5, gynobasic style, 4 glochidiate nutlets.

Trichodesma indicum R. Br. herb, leaves variable in shape, villous, solitary flowers purplish white, G deeply four lobed, four nutlets attached to carpophore, connectives of the five anthers produced.

64. VERBENACEÆ.

Lantana indica Roxb., erect spinescent shrub, pink or purple flowers, fruit berry.

Tectona grandis Linn.

Premna tomentosa Willd., trees with yellowish flowers, C. two lipped, A 4 didynamous, drupe pyrene 4 celled.

Premna procumbens Moon., small shrub, flowers yellow in corymbs, drupes ovoid.

Clerodendron Colebrookianum Walp., shrubs with large glandular leaves, fœtid smell, flowers in clusters, K pubescent, C rose purple to white, fruit drupe, 4 pyrenes.

Stachytarpheta mutabilis Vahl., undershrubs with stout spikes and rose flowers.

65. LABIATÆ.

Leucas montana Spreng., small undershrubs, flowers white, leaves thick, ovate obtuse, densely tomentose, calyx tube campanulate, slightly curved, 6-10 toothed, lower lip of corolla longer than hood, 4 nutlets.

Leucas urticifolia R. Br., tall herbs with white flrs., in verticellasters, mouth of calyx oblique, and prominently ribbed.

Leucas aspera Spreng., common herb with decussate leaves and white flowers grouped in verticellasters.

Ocimum adscendens Willd., small herb without aromatic smell, flowers white, inflorescence in lax racemes, K papery deflexed in fruit, corolla tube short, bifid stigma, 4 nutlets.

Anisochilus dipsophylloides Benth., thick undershrubs, stem pubescent, inflorescence spicate, flowers white, K 2 lipped not closing the mouth, A 4, bifid style, 4 nutlets.

Salvia officinalis Linn.

Mentha piperata Linn.

66. SOLANACEÆ.

Physalis minima Linn., herbaceous annual, leaves alternate, lobed, flowers yellow, K 5, accrescent, inflated in fruit, A 5 long., dehiscence, fruit berry, flat reniform seeds.

Nicandra physaloides Gaertn., undershrub, with blue flowers, K in fruit deeply cleft.

Solanum nigrum Linn., annual herb, flowers white in cymose umbels, A 5 apical pore dehiscence, fruit indehiscent, purplish black.

Solanum xanthocarpum Schrad & Wendl., spinescent undershrub, lobed leaves, purplish blue flowers, fruit yellowish, globose berry.

Lycopersicum esculentum Miller.

67. SCROPHULARIACEÆ.

Verbascum thapsus Linn., tall herbs covered with tomentose hairs, leaves alternate, flowers yellow K 5, C (5), A 5 bearded, fruit globose, indefinite seeds.

Ilysanthes parviflora Benth., erect herbs with blue flowers, A 4, 2 staminodes which are bilobed.

Sopubia delphinifolia G. Don., herbs in marshy places, flowers pink, K tube straight, A 4, anthers two celled, one cell imperfect, fruit ovoid, many-seeded capsules.

Scoparia dulcis Linn., undershrub, small white flowers, usually found in marshy places, corolla rotate and villous, A 4, fruit many seeded.

Mourandia Barclayana ., climber with purplish blue flowers.

Calceolaria sp. ? trailing herb with yellow flowers. Found near Oaklands.

68. BIGNONIACEÆ.

Tecoma stans.

Jacaranda mimosifolia.

69. ACANTHACEÆ.

Justicia diffusa Willd., herb with pale blue flowers, bracts and bracteoles small, A 4, divaricate anthers, with basal appendage, 4 seeds compressed.

Justicia quinqueangularis Koen., herbaceous undershrubs with lax branching, flowers rose coloured and leaves elliptic.

Strobilanthes sp. ?

Asystasia coromandaliana Nees., straggling climber, small leaves, flowers purplish white, K 5 partite, corolla slightly inflated at the top, A 4.

Blepharis bærhaavifolia Pers., prostrate herbs with pink flowers, K 4, A 4 didynamous, anther filaments produced above, fruit capsule, seeds compressed, papillose.

70. RUBIACEÆ.

Wendlandia angustifolia Wight., small tree, whorled leaves, flowers white, fragrant, in thyrsoid panicles, K 5, C (5) twisted in bud, A 5, fruit capsule.

Randia ulignosa D. C., deciduous tree armed with spines, flowers white, fragrant, fruit ovoid berry, many seeded.

Chomelia asiatica O. Kze., small shrubs, flowers corymbose cymes, white, polygamous, A 5, fruit 2-seeded berry.

Ixora parviflora Vahl., small tree, leaves opposite, elliptic, large and coriaceous, tetramerous floral parts, G 2 celled, bifid stigma.

Rubia cordifolia Linn., climbing herb, cordate leaves, 6 ribbed, without interpetiolar stipules, flowers greenish yellow, fruit fleshy berry.

Coffea arabica Linn., and *Coffea robusta* cultivated.

71. CAPRIFOLIACEÆ.

Lonicera caprifolioides Linn.

72. CUCURBITACEÆ.

Coccinia indica W. & A., large climber with lobed leaves, flowers white, corolla campanulate, A 3, filaments connate, fruit indehiscent berry.

73. COMPOSITÆ.

Polymnia grandis planted.

Bidens pilosa Linn., erect herb, yellow flowers, achenes barbed, pappus 2-4 persistent.

Ageratum conyzoides Linn., small herb, leaves pubescent, opposite, flowers pale blue in colour.

Ageratum mexicana, flowers white in colour.

Eclipta alba Hassk., small villous herbs, flowers white, leaves lanceolate-oblong.

Blainvillea rhomboidea Cass., erect herb, opposite 3 nerved leaves, flowers yellowish white, Pappus or 2-5, sharp bristles.

- Acanthospermum hispidum* D.C., small plant, greenish yellow flowers with spinescent achenes.
- Volaturella divaricata* Benth., small herbs with large runcinnate leaves, flowers purple 0 violet, bracts spinescent.
- Tagetes erecta* Linn., common on the hill sides.
- Guizotia abyssinica* Cass., undershurbs with conspicuous yellow flowers and oleiferous seeds.
- Spilanthes Acmella* Linn., small herbs with opposite leaves and yellow flowers, pappus 0 or 2-3 bristles.
- Cosmos* sp.? found wild along hill slopes.
- Flaveria australasica* Hook., herbs with opposite leaves, yellow flowered in dense clusters surrounded by floral leaves. Achenes compressed, 8-10 ribbed, pappus 0.
- Zinnia elegans* Jacq., wild along hill slopes.

74. COMMELINACEÆ.

- Cyanotis tuberosa* Schultes, prostrate herbs with cylindric root tubers, flowers in terminal corymbs, purplish blue, capsule tomentose at the apex.
- Aneilema nudiflorum* Br., herb with prostrate habit, flowers in terminal panicles, cymes naked, flowers purple, A 6, 3 fertile and bearded, and 3 sterile.

75. ORCHIDACEÆ.

- Habenaria rariflora* A. Rich., terrestrial leafy herbs, leaves radical, linear oblong, flowers few, long pedicelled, white.
- Habernaria platyphylla* Spreng., terrestrial forms, leaves sessile orbicular, flowers dense, in spikes, white and sweet scented.
- Diplocentrum congestum* Wight., epiphytes without pseudobulbs, leaves broad, spike 4"-6", petals pinkish lilac with crimson spur, sweet scented.
- Luisia teretifolia* Gaud., epiphyte, stem rigid, leaves cylindric or terete, flowers small, dark purple with greenish-yellow spots.

(To be continued.)